

SOV/115- 59-2-14/38

24(3)

AUTHOR: Konovalov, M.D., Rikhter, V.A., Tarapin, V.N.

TITLE: A Photoelectric Apparatus for Measuring Torque (Foto-elektricheskiy pribor dlya izmereniya krutyashchikh momentov)

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 2, pp 28-29
(USSR)

ABSTRACT: The photoelectric apparatus, developed by Professor S.A. Strelkov is for measuring torque on shafts of building and road construction machines. There are two variants of this apparatus, one for installing on shafts which may be removed for this purpose, and the second for non-removable shafts. The apparatus works on storage batteries, which is very valuable during field tests. Torque measurement is done by light waves. The paper then describes briefly how both variants function. Tests made so far show that under field conditions, the degree of error is 3-4% and under laboratory conditions, it may be reduced to 2%. This apparatus has proved invaluable

Card 1/2

KONOVALOV, M.D.; KOVAL'SKIY, Yu.A.

Automatic weight batching at asphalt-concrete plants. Priboro-
stroenie no.1:31-32 Ja '61. (MIRA 14:1)

(Automatic control)

(Concrete plants—Equipment and supplies)

KONOVALOV, M.D., inzh.

Introducing automatic processes in making asphalt-concrete mixes.
Stroi. i dor. mashinostr. 5 no.11:28-33 № '60. (MIRA 13:10)
(Automatic control) (Asphalt concrete)

KONOVALOV, M.F.

Most important function of Soviet government workers. Gor.khoz.
Mosk. 32 no.12:6-7 D '58. (MIRA 11:12)

1. Zaveduyushchiy Organizatsionno-instruktoriskim otdelom Ispolkoma
Mossoveta.

(Moscow--Municipal government)

(Moscow--Municipal services)

KONVALOV, M.F.; ANTONOVA, Ye.N.; POSTNIKOV, M.A.

Permanent commissions are public organs of the Council. Gor.khoz.
Mosk. 33 no.4:4-6 Ap '59. (MIRA 12:6)

1. Zaveduyushchiy Orginstruktorskii otdelom Mosgorispolkoma (for
Konvalov). 2. Starshiye instruktora Orginstruktorskogo otdela
Mosgorispolkoma (for Antonova, Postnikov).
(Moscow--Municipal government)

KONOVALOV, M.F.

According to instructions given by the voters. Gor.khoz.
Mosk. 33 no.10:16-18 0 '59. (MIRA 13:2)

1. Zaveduyushchiy Organizatsionno-instruktorskim otdelom
Ispolkoma Mossoveta.
(Municipal services)
(Moscow--Municipal government)

KONOVALOV, M.P.

Use every possible means for strengthening the ties between
the soviets and the masses. Gor.khoz.Mosk. 34 no.4:6-9
Ap '60. (MIRA 13:8)

1. Zaveduyushchiy Organizatsionno-instruktsionnyy otdelom
Ispolkoma Mossoвета.
(Moscow--Municipal government)
(Moscow--Municipal services)

KONOVALOV, M.F.

Let's develop democratic principles of government. Gor.khoz.Mosk.
35 no.9:43-46 S '61. (MIRA 14:10)

1. Zaveduyushchiy organizatsionno-instruktskim otdelom Ispolkoma
Mossoveta.

(Moscow--Municipal government)

ZABOTINA, R.I., inzh.; KONOVALOV, M.F., inzh.

Mechanization of the scheduling of monthly shop assignments
by parts. Vest. mashinostr. 44 no.9:74-76 S '64.
(MIRA 17:11)

KURSET'YEV, G.N.; KONOVALOV, M.I.; VORONCHIKHIN, G.A.

The performance of flotation machines. TSvet. met. 38 no. 12:
23-24 D '65 (MIRA 19:1)

KURBET'YEV, G.N.; KONOVALOV, M.I.; VORONCHIKHIN, G.A.; BURDA, S.I.

Industrial testing of sodium cyanide as a substitute for black cyanide. TSvet. met. 38 no.9:25-26 S '65.

(MIRA 18:12)

KONOVALOV, N.M.

Accuracy of the interpretation methods of test-hole seismic
prospecting. Geol. i geofiz. no.11:147-148 '64.

(MIRA 18:4)

1. Treat "Kazakhstanneftegeofizika", Gur'yev.

USSR/Human and Animal Physiology - The Nervous System.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13257

Author : Kryshova, N.A., Kok, Ye.P., ~~Konovalev, M.N.~~
Ozeretskoyanskaya, N.G.

Inst : -

Title : Higher Nervous Activity in Myopathy and Dynamics of
Trophic Disturbances of the Muscles

Orig Pub : V sb.: Ucheniye N.Ye. Vvedenskogo v klinich. praktike.
Odessa, 1957, 99-105

Abstract : In 68 cases of progressive muscular dystrophy there
was a contraction of the unchanged and hypertrophic
muscles and a persistent elongation of chronaxia
(or absence of galvanic stimulation) on the atrophic
muscles. In a number of cases when there was no
tendon reflex, there was a heterochronia of the nerve
and muscle; in 5 cases restoration of isochronia

Card 1/2

- 117 -

SKLYAREVSKIY, L. YA.; SKRODUMOVA, I. V.; KONOVALOV, M. N.

"Clinico-morphological demonstration of toxic effects produced by Sekurinin."

report submitted for 3rd Hungarian Conf, Therapy & Pharmacology, Budapest,
5-12 Oct 64.

VILAR Medico-biological Dept, Riga.

PENZIK, A. S.; SPELTER, V. B.; KONOVALOV, M. N.

"Experiences with the anticoagulants Omephin and Eskusane in diseases of cerebral blood vessels."

report submitted for 3rd Hungarian Conf, Therapy & Pharmacology, Budapest, 5-12 Oct 64.

Medical Inst, Neurological Faculty & the VILAR Medico-Biological Dept, Riga.

KONOVALOV, M.N.; KUVAYEV, V.B.; TRUTNEVA, Z.A.

New data in the medical use of *Paeonia anomala*. Med.prom. 16
no.5:57-59 My '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh
i aromaticeskikh rasteniy.
(PEONIES---THERAPEUTIC USE)

SKLYAREVSKIY, L. Ya.; KONOVALOV, M.N.

Methodology used in determining the requirement for new drugs.
Med. promyshl. SSSR 17 no.8:24-25 Ag'63 (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh
i aromaticeskikh rasteniy.

KOVALEVA, Z.Ya., kand. med. nauk; KONOVALOV, M.N., kand. med. nauk

Rotundine, a new sedative preparation in a psychiatric clinic. Trudy
1-go MMI 25:465-472 '63. (MIRA 17:10)

1. Kafedra psikhiiatrii 1-go Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova (zav. kafedroy prof. V.M.Banshchikov)
i Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i
aromaticheskikh rasteniy (direktor M.T.Kondratenko).

BCGOMOLOVA, Ye.M.; KONOVALOV, M.N.

Effect of bulbo-capnine on the behavior and
bio-electrical activity of the brain in cats. *matl. eksp.
biol. i med.* 59 no.2:64-69 F '65.

(MIRA 18:7)

1. Institut psikhiiatrii (dir. - deystvitel'nyy chlen AMN SSSR
prof. A.V. Snezhnevskiy) AMN SSSR i mediko-biologicheskiiy otdel
(zav. - kand. med. nauk M.N. Konovalov) Vsesoyuznogo nauchno-
issledovatel'skogo instituta lekarstvennykh i aromaticeskikh
rasteniy (dir. - kand. sel'skokhoz. nauk P.T. Kondratenko),
Moskva.

KONOVALOV, M.M.

Simplified determination of corrections for surface conditions
in hodographs of reflected waves. Razved. i prom. geofiz.
no. 35:61-65 '60. (MIRA 13:12)
(Seismic prospecting)

KONOVALOV, M.M.

Seismic shot-hole prospecting. Razved. i okh. nedr 27 no.8:
36-40 Ag '61. (MIRA 16:7)

1. Kazakhskiy sovet narodnogo khozyaystva.
(Seismic prospecting)

KONOVALOV, M.M.

New structural forms of a persalt complex of the Caspian Lowland.
Geol. ~~nefti~~ i gaza 6 no.7:24-26 JI '62. (MIRA 15:6)

1. Trest Kazakhshtanneftegeofizika.
(Caspian Lowland—Salt domes)

SMOLYAK, V.A., kand.tekhn.nauk; YASHIN, Yu.F., inzh.; UZLYUK, V.N., inzh.;
Prinimali uchastiye: Balyuk, F.B.; KONOVALOV, M.S.; SEL'DYAKOV,
M.I.; TREGUB, N.G.; POLOVCHENKO, Yu.I.; KHODOROVSKIY, S.S.;
CHERNYY, A.A.; YEVSEYEV, A.N.; KOVALENKO, I.A.

Radiometric investigation of blast furnace tuyere zones. Stal'
21 no.9:777-782 S '61. (MIRA 14:9)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i Zavod im.
Dzerzhinskogo.

(Blast furnaces)

KONOVALOV, M. T. , ed.

(Shpolyanskiy rayon) Moskva, Gos. izd-vo sel'khoz. lit-ry, 1953. 446 p.
maps. (54-20465)

3469.R9K558

1. KONOVALOV, M. T.
2. USSR (600)
4. Kok-Saghyz
7. Effect of seeding methods and rates on the yield of kok-saghyz roots and their rubber content. Trudy Undisoiz, No. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

KONOVALOV, M.T.

VERNANDER, N.B.; GODLIN, M.M., professor, doktor sel'skokhozyaystvennykh nauk; SAMBUR, G.N.; SKORINA, S.A.; KONOVALOV, M.T., otvetstvennyy redaktor; AKSENOV, G.G., tekhnicheskii redaktor; LIMANOVA, M.I., tekhnicheskii redaktor

[Soils of the Ukrainian S.S.R.] Pochvy USSR. Pod red. M.M.Godlina.
Kiev, Gos. izd-vo selkhoz. lit-ry, USSR, 1951. 326 p. [Microfilm]
(Ukraine--Soils) (MLRA 7:10)
(Soils--Ukraine)

BEDNYKH, V., prepodavatel'; IVANOV, A., instruktor; KONOVALOV, N., prepodavatel'; NESTEROV, N.; PROSOLOV, G., instruktor

Suggestions of active members of the All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy. Za rul. 17 no.1:6
Ja '59. (MIRA 12:3)

1. Nachal'nik avtomotokluba, Orenburgskaya oblast' (for Nesterov).
(Automobile drivers)

KONOVALOV, N., inzh.; KUROPATIN, P., kand.tekhn.nauk; NORIEVSKIY, B.,
prof.; NIKEL'SHPURG, I., inzh.; CHERNUKHA, V., inzh.

Automatic regulation of voltage and the distribution of loads
during the parallel operation of suspended ship generators.

Mor. flot 23 no.11:27-30 N 63.

(MIRA 16:12)

1. Leningradskiye vyssheye inzhenernoye morskoye uchilishche im.
admirala Makarova.

OLEKHNOVICH, K., MIKHAILICHENKO, N. and KONOVALOV, N. (Volokolamsk Inter-District Veterinary Bacteriological Laboratory, Moscow Oblast'). (Abstracted by V. A. ALIKAYEV)

"Using efficiency in calculations determining the carotene content in feeds.."
Veterinariya, vol. 39, no. 2, February 1962 pp. 77

NIKITIN, K.K.; KONOVALOV, N.A.

Separation of the monomineralic fractions of pyroxenes and
nepheline from alkali rocks. Kora vyvetr. no.5:385-388 '63.
(MIRA 16:7)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimi AN SSSR.
(Mineralogical chemistry)

KONOVALOV, N.A.; DANILOV, V.I., inzh.; KHATSKHELEVICH, M.N., inzh.

Reply to the inquiries of our readers. Elek.i tepl.tiaga. 4
no.6:42-43 Je '60. (MIRA 13:8)

1. Master motorno-apparatnogo tsekha depo Moskva III Moskovskoy
dorogi.

(Electric locomotives--Maintenance and repair)
(Diesel locomotives)
(Railroads--Signaling)

KONOVALOV, N. A.

Konovalev, N. A. "A short description of the types of oak forests in the central wooded steppes," Uchen. zapiski Ural'skogo gos. un-ta im. Gor'kogo, Issue 4, 1948, p. 23-41.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

PA 165T12

USSR/Biology - Trees

Vernalization

21 Mar 50

Experiments in the Vernalization Method on Tree Seeds," N. A. Konovalov

"Dok Ak Nauk SSSR" Vol LXXI, No 3, pp 561-563

Discusses results of tests made in 1937, 1939 - 1941, and 1947 - 1949 on effect of vernalization of seeds of trees on survival and development of saplings. Finds test plants have more fibrous root systems, better development of external parts, greater vitality, and higher probability of survival than those with seeds not treated. Seed can be planted later than untreated seed.

PDD

USSR/Biology - Trees (Contd)

21 Mar 50

and also in number of cases can be planted directly in the field without preliminary nursery care. Includes figure. Submitted 17 Jan 50 by Acad. V. N. Sukachev.

165T12

165T12

1. KONOVALOV, N. A.
2. USSR (600)
4. Agriculture
7. Trees and shrubs of the Ural. Sverdlovsk, Sverdigiz, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KONOVALOV, N.A.

Result of propagating poplar by means of large branch cuttings.
Biul. Glav. bot. sada no. 16:92-93 '53.

(MLRA 7:4)

1. Botanicheskiy sad Ural'skogo gosudarstvennogo universiteta im.
M. Gor'kogo. (Poplar) (Plant propagation)

KONOVALOV, N.A. (Sverdlovsk)

Work on the selection of poplars. Bot.zhur. 39 no.5:773-775
S-O '54. (MLRA 7:11)
(Poplar)

KONOVALOV, N.A.

~~Experiment in breeding the black pyramidal poplar for the~~
central Urals. Biul. Glav. vot.sada no.24:15-19 '56. (MLRA 9:11)

1. Opytnaya stantsiya po ozeleneniyu gorodov Ural'skogo nauchno-
issledovatel'skogo instituta Akademii kommunal'nogo khozyaystva
imeni K.D. Pamfilova.
(Ural Mountains--Poplar)

USSR / Forestry. Forest Crops.

K-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24895.

Author : ~~Konovalov, N. A.~~; Golutvin, V. S.

Inst : Not given.

Title : The Conditions of Forest Vegetation of the Ural
Educational-Experimental Forest Station and Types
of Forest Trees.

Orig Pub: Sb. tr. po lesn. kh-vu. Ural'skiy lesotekhn. in-t,
1956, vyp. 4, 3-19.

Abstract: The types of the forest vegetation conditions are
briefly described and types of forest cultures in
the Ural educational-experimental leskhoz recommen-
ded. As a basis of the unification of types of
the conditions of forest vegetation, conditions
of the moistening and richness of the soil are put
into 4 groups. The following type groups were

Card 1/3

35

USSR / Forestry. Forest Crops

K-4

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58412

Author : Konovalov, N. A.

Inst : AS USSR - *Botanical Garden, Inst. Biology. Ural Affil,*

Title : The Experiment of Breeding the White Lombardy Poplar in the Middle Urals

Orig Pub: Byul. Gl. Botan. sada, AN USSR, 1957, vyp. 28.,
34-36

Abstract: The results of experiments started in 1952 on the interbreeding of white poplar with the Bolle poplar are given. The hybrid seedlings obtained combine features of both parents. They attained a height of between 122 and 282 centimeters with an actual increment in height of 46-82 centimeters by

Card 1/2

42

AL'BENSKIY, Anatoliy Vasil'yevich; SHCHEPOT'YEV, F.L., doktor sel'khoz. nauk, retsenzent; KONOVALOV, N.A., prof., retsenzent; VERESIN, M.M., red.; ARNOL'DOVA, K.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Tree breeding and seed production] Seleksiya drevesnykh porod i semenovodstvo. Moskva, Goslesbunmizdat, 1959. 305 p.
(MIRA 14:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva (for Shchepot'yev). 2. Zaveduyushchiy kafedroy lesovodstva Ural'skogo lesotekhnicheskogo instituta (for Konovalov)
(Tree breeding) (Seed production)

KONOVALOV, N.A.; PETUKHOVA, I.P.

Introduction and breeding of woody plants in the Urals. Trudy
Inst.biol.UFAN SSSR no.14:55-65 '60. (MIRA 14:6)
(Ural Mountain region—Tree breeding)
(Ural Mountain region—Plant introduction)

KONOVALOV, N.A.

Experience in growing Lombardy poplar and cottonwood from seeds.
Trudy Inst. biol. UPAN SSSR no.23:33-42 '61. (MIRA 15:2)
(Poplar)

KONOVALOV, N.A.

Developing fast-growing types of poplars in the Sverdlovsk
Botanical Garden. Trudy Inst. biol. UFAN SSSR no.23:23-31
'61. (MIRA 15:2)
(Sverdlovsk--Poplar breeding)

KONCHALOV, N.A.

New forms of hybrid/lombardy poplars. Zap. Sverd. otd. VBO no.3:
129-132 '64 (MIRA 18:2)

KONOVALOV, N.A.; PETUKHOVA, I.P.

Poplars and decorative aspen recommended for landscaping
cities of the Central and Southern Urals. Nauch. trudy
AKKH no.24:89-93 '64 (MIRA 18:2)

KONOVALOV, N.A.; LUGANSKAYA, V.D.

Improving the field germination rate of the seeds of Sukachev's
larch. Trudy Inst. biol. UFAN SSSR no. 43:167-171 '65
(MIRA 19:1)

1. Ural'skiy lesotekhnicheskiy institut.

KONOVAIOV, N.I., kandidat tekhnicheskikh nauk.

New method of setting-up the efficiency coefficients of induction
motors. Elektrichestvo no.1:55-56 Ja '49. (MLBA 7:10)

1. Ivanovskiy energeticheskiy institut im. Lenina.
(Electric motors; Induction)

1ST AND 2ND COPIES		3RD AND 4TH COPIES	
PROCESSES AND PROPERTIES INDEX			
SA		B 64 C	
<p>3636. Analytic investigation of the characteristics of an induction motor, allowing for saturation. N. I. KOSHYALOV. <i>Elektrichestvo</i>, No. 6, 16 21 (June, 1951) In Russian.</p> <p>The method uses a general proposition of G. N. Petrov [<i>Elektrichestvo</i>, No. 12 (1948)] i.e. that the locus of the ends of the current vectors in the most general case is a 10th order curve, under certain conditions degenerating into a 6th order curve. For low saturation and loads not exceeding 130% of the rated load, the stator current vector may move either on a Pascal's limaçon or an ellipse. For other values of the saturation the character of the loci varies accordingly. The results of this theoretical investigation combined with practical data on tooth saturation and a simple equivalent circuit treatment yield an approximate analytical method for calculating the characteristics of induction machines with partially variable parameters for machines working as generators or in braking conditions, in systems with variable parameters and types with variable flux. N. I. KOSHYALOV</p>		<p>Docent, Cand. Tech. Sci. IVANOVO Power Eng. Inst. im Lenin</p>	
ASB-3.1.1 METALLURGICAL LITERATURE CLASSIFICATION		6-21111-12111	
SIGNATURE		SIGNATURE	
DATE		DATE	

KONOVALOV, N.I., dots, kand. tekhn. nauk; PRAKHIN, B.Ya., inzh; SANDLER, A.I.
~~dots, kand. tekhn. nauk.~~

Increasing the efficiency of centrifugal mechanisms of electric power
stations. Izv. vys. ucheb. zav., energ. no. 8:25-31 Ag '58.
(MIRA 11:11)

1. Ivanovskiy energeticheskiy institut imeni V.I. Lenina.
(Electric power plants--Equipment and supplies)

KONOVALOV, N.I.

Conference of the readers of "Promyshlennaya energetika" journal
in an enterprise of the Bashkiria Economic Council. Prom.energ.
16 no.7:56 J1 '61. (MIRA 15:1)

(Bashkiria--Electric power--Periodicals)

KONOVALOV, N.I., kand.tekhn.nauk, dotsent; PRAKHIN, B.Ya., inzh.;
~~SANDLER~~, A.I., kand.tekhn.nauk, dotsent

Operations of the feed pumps of thermal electric power plants
with variations and loss of magnetic flux. Izv.vys.ucheb.zav.;
energ. 5 no.11:51-57 N '62. (MIRA 15:12)

1. Ivanovskiy energeticheskiy institut imeni V.I. Lenina.
Predstavlena kafedroy elektricheskikh stantsiy i podstantsiy.
(Pumping machinery, Electric)

KONOVALOV, N.I.; GORSHKOV, A.V.

Effect of the weight of the batten bar and of the crankshaft's rotating speed on the performance of the loom and electric motors. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.6:61-67 '64. (MIRA 18:3)

1. Ivanovskiy energeticheskiy institut imeni Lenina i Ivanovskiy tekstil'nyy institut imeni Frunze.

GUSALOV, Z.G., gornyy inzh.; KONOVALOV, N.N., gornyy inzh.; YEGIN, B.,
gornyy inzh.

Operations at the Almalyk open-pit mine. Ugol' 40 no.12:38-40
D '65. (MIRA 18:12)

KONOVALOV, N.N.; POPOV, A.A.

Comparative characteristics of the water permeability of soils of various moisture. Pochvovedenie no. 5:104-105 My '61.

(MIRA 14:5)

1. Yuzhgiprovdkhoz.

(Soil percolation)

KONOVALOV, N.N., Cand Agr Sci -- (diss) "Hydro-physical
properties of soils in regions where irrigation is planned
in Rostovskaya Oblast." Rostov-on-Don, 1959, 20 pp
(Min of Agr RSFSR. Southern State Inst for ^{Improvement} Planning, Water
Resources and ~~Development~~ Construction "Yuzhgiprovdkhov")
110 copies (KL, 33-59, ¹²⁰ ~~110~~)

- 46 -

YEGOROV, V.V.; POPOV, A.A.; KONOVALOV, N.N.

Consolidated zoning of the Volga-Akhtuba Flood Plain for soil improvement purposes. Pochvovedenie no.3:16-29 Mr '62. (MIRA 15:7)

1. Pochvennyy institut imeni V.V.Dokuchaeva i Yuzhnyy gosudarstvennyy institut po proyektirovaniyu vodnogo khozyaystva.
(Volga-Akhtuba Flood Plain—Reclamation of land)

YEGOROV, V.V.; POPOV, A.A.; KONOVALOV, N.N.

Schematic zoning of the Volga Delta for soil improvement purposes.
Pochvovedenie no.9:4-13 S '62. (MIRA 16:1)

1. Pochvennyy institut imeni V.V.Dokuchayeva,
(Volga Delta--Saline and alkali soils)

SMIRNOV, R.N.; GOROZHANKIN, O.S.; KONOVALOV, N.N. ..

Practices in natural zoning in the Caspian Lowland for soil
improvement purposes. Pochvovedenie no.9:26-30 S '65.

(MIRA 18:10)

KONOVALOV, N.N., gornyy inzh.

Operating the ESh-6/60 excavator during boring and blasting operations
at the Kara-Su strip mine of the Kirghizugol' Trust. Ugol' 40 no.2:28-29
F '65. (MIRA 18:4)

1. Rudoupravleniye Tashkumyr.

KONOVALOV, N.P.

115-5-40/44

AUTHOR: Konovalov, N.P.

TITLE: Eliminating Excesses in Records and Reporting (Ustraneniye izlishestv v uchete i otchetnosti)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 92-93 (USSR)

ABSTRACT: The article mentions the regulation (prikaz) No 20 of 14th January 1957 of the Committee of Standards, Measures, and Measuring Devices as one that enabled simplifying and reducing the checkup records being kept on measuring equipment, but states that after cancellation of the Committee's Rules No 10-40 and 11-41, many rules which regulated supervision of measuring equipment are not included in other existing regulations. As exchange of practical experience, a system is described of record keeping at an unidentified Leningrad plant where the 12 forms introduced in 1948 by the Committee's prikaz No 221 have been replaced by one form (shown in the article). A number of documents have been abolished or abridged. A stamp showing the accuracy class and the date for checkup was introduced for 2nd accuracy class universal gages, (for this stamp a paint is used containing 40% iditol, rectified spirit, and coloring substance). The author considers it desirable that the Committee work out

Card 1/2

KONOVANOV, N.P.

25(6)

PHASE I BOOK EXPLOITATION SOV/3204

Markov, Arkadiy Lvovich, and Nikolay Petrovich Konovvalov

Kontrol' zubchatykh kolez (Inspection of Gears) Moscow, Mashgiz,
1958. 90 p. (Series: Bibliotekha zuboreza-novatora, vyp. 9)
Errata slip inserted. 10,000 copies printed.

Editorial Board: N. I. Kolchin, Professor (Chairman); I. Yu. Turetskiy, Candidate of Technical Sciences; and N. I. Shavlyuga, Candidate of Technical Sciences, Docent; Reviewer: F.P. Volosevich, Engineer; Ed.: N. I. Shavlyuga; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F. I. Fetisov, Engineer; Ed. of Publishing House: V. P. Vasil'yeva; Tech. Ed.: R. G. Pol'skaya.

PURPOSE: This booklet is intended for skilled operators and setters of gear-cutting machines and foremen and process engineers in the gear-manufacturing industry.

COVERAGES: The book presents information on methods of inspecting spur, bevel, and worm gears. The methods are in accordance with

Card 1/4

Inspection of Gears

SOV/3204

GOST standards 1643-56, 1758-56, and 3675-56. The selection of proper inspection methods to insure kinematic and dimensional accuracy and smoothness of operation is discussed. A. L. Markov wrote Chapters I to V, and N. P. Konovalov wrote Chapter VI. No personalities are mentioned. There are 27 references, all Soviet.

TABLE OF CONTENTS:

Preface	3
Ch. I. Indices of Gear Accuracy. Selection of Means and Methods of Measuring Gears	5
1. Indices of gear accuracy	5
2. Selection of means and methods of measuring gears	10
Ch. II. Means and Methods of Measuring Parameters Insuring Kinematic Accuracy of Spur Gears	14
3. Means for measuring kinematic errors in gears	14
4. Means and methods of determining maximum differences and maximum accumulated error of circular pitch	19

Card 2/4

Inspection of Gears

SOV/3204

- | | |
|--|----|
| 12. Determination of the deviation in tooth thickness by using gear-tooth vernier calipers | 62 |
| 13. Means and methods of determining the limit variation and the deviation in chordal distance of a block of teeth [block-gaging method] | 67 |

Ch. VI. General Assumptions in Inspection of Bevel Gears, Worms, and Worm Gears

- | | |
|---|----|
| 14. Purpose and recommended methods of inspection | 74 |
| 15. Inspection of tooth thickness | 75 |
| 16. Measurement of the runout of the basic pitch cone | 75 |
| 17. Measurement of circular pitch of bevel gears | 79 |
| 18. Inspection of tooth direction | 79 |
| 19. Inspection of tooth profile by the projection method | 81 |
| 20. Methods of final inspection | 82 |
| 21. Purpose of inspection. Checked elements of worms and worm gears | 83 |

Bibliography

85

AVAILABLE: Library of Congress (TJ184.B5)

Card 4/4

VK/mg
4-25-60

28(2)

SOV/115-59-3-6/29

AUTHOR:

Konovalov, N.P.

TITLE:

A Device With a Theodolite for Checking Angle Gages
(Ustanovka s teodolitom dlya poverki uglovykh mer)

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 3, pp 9-10 (USSR)

ABSTRACT:

A device for checking angle gages was designed and built at the Leningrad plant "Bol'shevik". The principle of this device was developed by the Khar'kovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments). Figure 1 shows the theoretical principle of this device, while figure 2 is a photograph of the instrument. A one-second theodolite is used as a goniometer which is mounted on a rotating tripod. The latter has the same vertical axis as the theodolite. The dial of the theodolite rotates together with the tripod. The angle gage to be checked is placed on the platform on which the tripod is mounted. A lightbeam from a collimator is reflected by the angle gage to an auxiliary mirror,

Card 1/2

A Device With a Theodolite for Checking Angle Gages

SOV/115-59-3-6/29

from where it is sent to the theodolite. The coincidence of the collimator cross with that of the theodolite indicates a definite spatial position of the gage surfaces in regard to the other stationary elements of the optical system. In addition, some of the measurement procedures are explained. There are 1 diagram and 1 photograph.

Card 2/2

KUROPATKIN, P.V., kand. tekhn. nauk; NIKEL'SHPURG, I.B., inzh.;
KONOVALOV, N.P., inzh.

Automatic voltage and current regulator for shunt generators
operating on semiconductors. Biul. tekhn.-ekon. inform. Tekh.
upr. Min. mor. flota 7 no.12:10-15 '62. (MIRA 16:11)

KONOVALOV, N.S.

Innovator Councils for the Shipbuilding Industry in the Leningrad
Economic Region. Sudostroenie 29 no.1:86-87 Ja '63. (MIRA 16:3)

1. Predsedatel' prezidiuma Soveta novatorov sudostroitel'noy
promyshlennosti.

(Leningrad Economic Region--Shipbuilding)

KOI.OVALOV, Nikolay Vasil'yevich; BEREZIN, F.B., red.

[Subacute anterior poliomyelitis] Podostryi perednii polio-
mielit. Moskva, Izd-vo "Meditsina," 1964. 95 p.
(MIRA 17:7)

ZIL'BER, L.A.; BAYDAKOVA, Z.L.; GARDASH'YAN, A.F.; KONOVALOV, N.V.;
BUNINA, T.L.; BARABADZE, Ye.M.

Study of the etiology of amyotrophic lateral sclerosis.
Vest. AMN SSSR 18 no.6:32-39 '63. (MIRA 17:1)

KCNOVALOV N. V.

754. KONOVALOV N. V. Unusual changes in cell nuclei in hepato-lenticular degeneration and in hepatic disease Arkh. Patol. 1948, 10/4 (32-35)

In three out of eight cases of hepato-lenticular degeneration the author found changes in neurons corresponding to those in Alzheimer glia cells. Alzheimer cells were also found in the convoluted tubules of the kidney in two cases. Similar changes were observed in 18 cases of acute or subacute toxic dystrophy or cirrhosis of the liver. In one case in particular degeneration of nervous tissue resulted in an akinetic-rigid syndrome for six months before death. Typical Alzheimer cells were found post mortem. The author believes that these histological changes are due to a metabolic product of the liver which circulates in the blood and exerts its specific toxic action on the cells subsequently called Alzheimer cells. References 14.

Zinnemann - (World Medical Abstracts) (Sec. V)

So. NEUROLOGY & PSYCHIATRY Section VIII Vol. 3¹ Jan-Jun 1950 Excepta Medica

Central Clinical Hosp imeni Semashko, Min. Transportation 1948

KONOVALOV, N. V.

Konovalov, N. V. "Histo-pathology of the brain during acute and chronic liver disorders," Sbornik nauch. rabot, posvyashch. pamyati akad. Averbakha. Moscow-Leningrad, 1948, p. 264-80

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

KONOVALOV, N. V. PROF

1847157

USSR/Medicine - Meningitis
Medicine - Diagnosis

Jan 1948

"Meningitis Produced by *Torula histolytica* Saccharomycetes," Prof N. V. Konovalov, 15 pp

"Nevropat i Psiakhiat" Vol XVII, No 1

Discusses diseases of the pia mater and the brain, caused by the *Torula histolytica*, and still unknown in Soviet Russia, which must be kept in mind when physician is diagnosing tubercular meningitis or brain tumors, however, he is urged to study the slightest symptomatic variations. Submitted for publication, 11 Mar 1947.

47187

KONOVALOV, N. V.

KONOVALOV, N. V.

I. P. Pavlov's theories and neuropathology. Nevropat. psikiat.,
Moskva 19:6, Nov.-Dec. 50. p. 19-23.

1. Of the Institute of Neurology of the Academy of Medical
Sciences USSR (Director--Prof. N. V. Konovalov, Corresponding
Member of the Academy of Medical Sciences USSR).

CML 20, 3, March 1951

KONOVALOV, N. V.

Basic problems of poliomyelitis. Nevropat. psikhiat.,
Moskva 20 no.3:3-10 May-June 1951. (CML 20:11)

1. Professor. 2. Report presented at the opening of the
Joint Session of Neurological and Virusological Institutes
of the Academy of Medical Sciences of the USSR and of the
Learned Council of the Ministry of Public Health RSFSR.

KONOVALOV, N.V.; POPOVA, L.M.

Present state of the problem of poliomyelitis. *Pediatrics*, Moskva
no. 4:5-14 July-Aug. 1952. (CLML 22:5)

1. KONOVALOV, N. V.
2. USSR 600
4. Poliomyelitis
7. To the editor of "Pediatriia", Pediatriia, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KONOVANOV, N.V.; SHMIDT, Ye.V.

Several problems in the etiology and pathogenesis of hypertonic illness. Zh. Nevropat. Psikiat., '52, 52, no.9, 3-10. (MLRA 5:9) (PsA 27, no.8:6068 '53)

GEYNISMAN, Ya. I.; ZHIRMUNSKAYA, Ye. A.; KONOVALOV, N. V., professor, deystvitel'-
nyy chlen Akademii meditsinskikh nauk SSSR, direktor.

Mechanism of the action of X-rays on the functional state of the central
nervous system; from electroencephalographic data. Vest. rent. i rad. no. 2:
5-15 Mr-Apr '53. (MLBA 6:6)

1. Institut nevrologii Akademii meditsinskikh nauk SSSR. 2. Akademiya
meditsinskikh nauk SSSR (for Konovalov). (X-rays--Physiological effect)
(Nervous system) (Electroencephalography)

ALEKSANDROVA, L.I.; KABELYANSKAYA, L.G.; KONOVALOV, N.V., professor, deystvitel'nyy
chlen Akademii meditsinskikh nauk, direktor.

Neurologic characteristics of initial phases of hypertension. Klin.med. 31
no.9:43-46 S '53. (MLRA 6:11)

1. Institut nevrologii Akademii meditsinskikh nauk SSSR. 2. Akademiya medi-
tsinskikh nauk SSSR (for Kononov). (Hypertension) (Nervous system)

1. KONOVALOV, N. V.
2. USSR (600)
4. Atrophy, Muscular
7. Etiology of amyotrophic lateral sclerosis. Zhur. nerv. i psikh. 32, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KONOVALOV, N.V.

Hepatolenticular degeneration. Zhur. nevr. i psikh. 54 no.11:
951-960 N 1954. (MLRA 8:1)
(LIVER--DISEASES)
(LENTICULAR DEGENERATION)

KONOVALOV, N.V. (Moskva)

Vasomotor disorders in hepatolenticular degeneration and in other liver diseases; problem of pathogenesis of vascular hypotonia. Zhur. nevr.psikh. 55 no.4:269-281 '55. (MIRA 8:7)

(LIVER, diseases,

with vasomotor disord.)

(VASCULAR DISEASES, PERIPHERAL,

vasomotor disord. in liver dis.)

(HEPATOLENTICULAR DEGENERATION, pathology,

vasomotor disord.)

KONOVALOV N.V.

EXCERPTA MEDICA Sec 8 Vol 9/7 Neurology July 56

3764. KONOVALOFF N.V. Moscow. *The problem of rehabilitation of functions after a disturbance of the cerebral blood circulation (Russian text) Z.NEVROPAT.PSIKHAT.(Mosk.) 1955, 55/6 (401-414)

An injury of cerebral areas calls forth focuses of inhibition. The intensity, spread and lasting of the inhibition depend on the character of the focus affected. Besides the organic disturbance of the cerebral tissue a disturbance of the entire cerebral neurodynamics takes place. After the first rehabilitation phase the brain is freed from the post-insult inhibition. The second rehabilitation phase means a compensation in the very sense of the word. To compensate the functional defect it is necessary to induce a sufficient inflow of afferent impulses. Movement therapy may bring forth unwanted synkineses, pathological stereotypes. It is ne-

KONOVALOV, N.V.

[Acute epidemic poliomyelitis] Ostryi epidemicheskii poliomielit.
Moskva, Medgiz, 1956. 276 p. (MLA 9:5)
(POLIOMYELITIS)

KONOVALOV, N. Vasil'yevich

[Infectious poliomyelitis; physician's manual] Epidemicheskii
poliomielit; rukovodstvo dlia vrachei. Moskva, Medgiz, 1957.
398 p. (MIRA 11:4)

(POLIOMYELITIS)

KONOVALOV, N.V.; MUTTEL'SHEDET, A.A.; BAUMAN, L.K.; GOTOVTSEVA, Ye.V.

Copper metabolism in hepatolenticular degeneration and during treatment of this disease with thiol preparations [with summary in French]. Zhur.nevr. i psikh. 57 no.1:39-48 '57. (MLRA 10:3)

1. Institut neurologii (dir. - prof. N.V.Konovalov) AMN SSSR, Moskva.
(COPPER, metab.
in hepatolenticular degeneration during ther. with
sulfhydryl cpds.)
(HEPATOLENTICULAR DEGENERATION, metab.
copper, without & during ther. with sulfhydryl cpds)
(SULFHYDRYL COMPOUNDS, ther. use
hepatolenticular degeneration, copper metab. in)

KONOVALOV, N.V.; ZHIRMUNSKAYA, Ye.A.; CHUKHROVA, V.A.

Electrical activity of the brain in hepatolenticular degeneration
[with summary in French]. Zhur.nevr. i psikh. 57 no.5:584-590 '57.
(MIRA 10:8)

1. Institut neurologii (dir. - prof. N.V.Konovalev) ANU SSR,
Moskva

(HEPATOLENTICULAR DEGENERATION, physiology,
EEG, (Rus))

(ELECTROENCEPHALOGRAPHY, in various diseases,
hepatolenticular degen. (Rus))

KONOVALOV, N.V., GOTOVTSEVA, Ye.V.

Treatment of hepatolenticular degeneration. [with summary in French]
Zhur.nevr. i psikh. 58 no.8:897-906 '58 (MIRA 11:9)

1. Institut nevrologii (dir. - prof. N.V. Kononov) AMN SSSR, Moskva.
(HEPATOLENTICULAR DEGENERATION, therapy,
(Rus))

KONOVALOV, N.V. (Moskva).

Etiology and pathogenesis of hepatolenticular degeneration. Zhur. nevrr.
i psikh 58 no.12:1412-1423 '58. (MIRA 12:1)
(HEPATOLENTICULAR DEGENERATION, etiology and pathogenesis,
review (Rus))

KONOVALOV, Nikolay Vasil'yevich

[Hepatocerebral dystrophy] Gepato-tserebral'naya distrofiya. Moskva, Medgiz, 1960. 555 p. (MIRA 14:7)
(LIVER—DISEASES) (BRAIN—DISEASES)

KONOVALOV, N.V.; SHMIDT, Ye.V.

Status and problems of scientific research in the field of vascular lesions of the nervous system and methods for their prevention.
Zhur. nerv. i psikh. 60 no. 12:1557-1569 '60. (MIRA 14:4)

1. Institut ~~nevrologii~~ AMN SSSR, Moskva.
(BRAIN—BLOOD SUPPLY)

KONOVALOV, N.V.; POPOVA, L.M.; KHONDKARIAN, O.A.

Subacute anterior poliomyelitis. Report No. 1: Clinical aspects
of subacute poliomyelitis. Zhur.nevr.i psikh. 62 no.8:1121-
1136 Ag '62. (MIRA 15:12)

1. Institut neurologii (dir. - prof. N.V.Konovalev) AMN SSSR,
Moskva.

(POLIOMYELITIS)

ZIL'BER, L.A.; BAYDAKOVA, Z.L. [deceased]; GARDASH'YAN, A.M.; KONOVALOV, N.V.;
BUNINA, T.L.; BARABADZE, Ye.M.

Possible viral etiology for amyotrophic lateral sclerosis. Vop.
virus.7 no.5:520-528 S-O '62. (MIRA 15:11)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei
AMN SSSR, Institut nevrologii AMN SSSR, Moskva, i Institut
eksperimental'noy patologii i terapii AMN SSSR, Sukhumi.
(AMYOTROPHIC LATERAL SCLEROSIS)
(VIRUS DISEASES)

SARADZHISHVILI, P.M., prof., otv. red.; BANSHCHIKOV, V.M., prof.,
zasl. deyatel' nauki, otv. red.; BABAYAN, E.A., red.;
KONOVALOV, N.V., prof., red.; SEREBRYAKOVA, Z.N., red.;
ZURABASHVILI, A.D., red.; RYZHIKOV, G.V., kand. med. nauk,
red.

[Epilepsy; problems of its etiology, pathogenesis, clinical
aspects, classification, treatment and expertise. Reports
at the All-Union Symposium on the Problems of Epilepsy] Epi-
lepsiia; voprosy etiologii, patogeneza, kliniki, klassifi-
katsii, lecheniia i ekspertizy. Doklady na ... Moskva, M-vo
zdravookhraneniia SSSR, 1964. 2 v. (MIRA 17:11)

1. Vsesoyuznyy simpozium po probleme epilepsii, 1964.
2. Upravleniye spetsializirovannoy meditsinskoy pomoshchi
Ministerstva zdravookhraneniya SSSR (for Babayan) 3. Prav-
leniye Vsesoyuznogo nauchnogo meditsinskogo obshchestva
nevropatologov i psikiatrov (for Banshchikov). 4. Institut
nevrologii AMN SSSR, Deystvitel'nyy chlen AMN SSSR (for
Kononov). 5. Institut klinicheskoy i eksperimental'noy
nevrologii AMN SSSR, Deystvitel'nyy chlen AMN SSSR (for
Saradzhishvili).

KONOVALOV, N.V.

...ology of amyotrophic lateral sclerosis. Zhur. nevr. i
psikh. 65 no.8:1121-1131 '65. (MIRA 18:8)

1. Institut nevrologii AMN SSSR.

"Working Processes and Characteristics of the Liquid Fuel Rocket Engines" (Rabochiy Protsess i Kharakteristiki ZhRD), Vest. Vozd. Flota, No.1, 1954.

This represents the 20th of a series of articles under a common title "Theory of Reactive Engines" (Teoriya Reaktivnykh Dvigatelye).

Summary of article D-206406, 28 Mar 55

AID - P-177

Subject : USSR/Aeronautics
Card : 1/1
Author : Konovalov, N., Lt. Col., Engineer, Kandidat of Technical Sciences
Title : The Theory of Reactive Engines
Periodical : Air Force Herald, 1, 67 - 79, Ja 1954
Abstract : This is the 20th part of the authors article on re-active engines. Its subtitle is: The Working Process and the Characteristics of Reactive Engines for Liquid Oxidizer (RELO). This part is divided into following chapters: Introduction, Efficiency coefficients of RELO, Basic parameters of RELO, Fuels for RELO, Combustion chamber of RELO, Gas flow in RELO, Characteristics of RELO. Diagrams, graphs, formulae.
Institution : None
Submitted : No date

KAZANDZHAN, P.K.; ALEKSEYEV, L.P.; GOVOROV, A.N.; KONOVALOV, N.Ye.; NECHAYEV, Yu.N.; PAVLENKO, V.F.; FEDOROV, R.M.; PISARNY, M.S.; Inzhener-polkovnik, redaktor; KUZ'MIN, I.F., tekhnicheskii redaktor

[Theory of jet engines] Teoriia reaktivnykh dvigatelei. Moskva, Voen. izd-vo Ministerstva oborony SSSR, 1955. 295 p. (MIRA 9:3) (Jet propulsion)

KONOVALOV, N.Ye.

PHASE I BOOK EXPLOITATION 1111

STANDARD FOR RELEASE: 06/19/2000 KAZANDZHAN, P.K.; ALEKSEYEV, L.P.; GOVOROV, A.N.; KONOVALOV, N.Ye.; NECHAYEV, Yu.N.; PAVLENKO, V.F.; FEDOROV, R.M.; PISARNY, M.S.; Inzhener-polkovnik, redaktor; KUZ'MIN, I.F., tekhnicheskii redaktor

Teoriya reaktivnykh dvigateley; rabochiy protsess i kharakteristiki (Theory of Jet Engines; Operation and Characteristics) Moscow, Oborongiz, 1958. 533 p. 20,000 copies printed.

Ed.: (Title page): Stechkin, B.S., Academician; Ed. (Inside book): Yanovskiy, I.L., Engineer; Ed. of Publishing House: Bogomolova, M.F.; Tech. Ed.: Rozhin, V.P.; Managing Ed.: Sokolov, A.I., Engineer.

PURPOSE: This is a textbook approved by the Ministry of Higher Education of the USSR for students of aviation vuzes. The book may be also useful to engineers working in the field of aircraft engine construction.

COVERAGE: This book is an independent part of the general course in "Theory of Jet Engines." The first part of this series, "Bladed Machines", was published in 1956. In this book the authors describe in detail gas dynamics analysis, the testing methods, and the characteristics of a number of types of jet engines.

00000000

In the compilation of this book the works of Stechkin, B.S., Kazandzhan, P.K., and others of the authors' collective were used, as well as the existing literature on bladed machines and jet engines. Individual chapters were written by the following authors: Ch. I and IV, by Govorov, A.N.; Ch. II and XV, by Alekseyev, L.P.; Ch. III and Sec. 7 of Ch. XVI, by Konovalov, N. Ye.; Ch. V to IX, by Nekchayev, Yu. N.; Ch. X, XI, and Sec. 1-6 of Ch. XVI, by Fedorov, R.M.; and Ch. XII, XIV and Ch. XVII by Kazandzhan, P.K. The authors express thanks to

1111

Theory of Jet Engines (Cont.)

- | | |
|---|----|
| 2. Basic equations of gas motion in the nozzle | 51 |
| 3. Operating conditions of supersonic nozzles in jet engines | 61 |
| 4. Effect of the operating conditions of the nozzle and of hydraulic losses in it on jet engine characteristics | 74 |
| 5. Profiling outlet nozzles | 81 |
| 6. Control of outlet nozzles | 84 |

Ch. IV. Combustion Chambers of Jet Engines

- | | |
|---|-----|
| 1. Requirements on combustion chamber of gas turbine engines (GTE).
Basic types of combustion chambers | 89 |
| 2. Operation of GTE combustion chambers | 94 |
| 3. Completeness of combustion and losses of pressure in GTE combustion chambers | 106 |
| 4. Dependence of the completeness and stability of combustion on various factors | 112 |
| 5. Determination of the necessary fuel consumption in combustion chambers | 116 |
| 6. Determination of basic dimensions of a combustion chamber | 121 |
| 7. After-burners of turbojet engines (TJE) and combustion chambers of ram-jet engines (RJE's) | 122 |

Theory of Jet Engines (Cont.)

1111

4. TJE with air separation into special high temperature combustion chambers	394
5. Characteristics of double flow TJE	395
Ch. XV. Ram-Jet Engines (RJE)	399
1. Operation of a RJE	400
2. Work of a cycle and specific characteristics of RJE's	403
3. Calculation relationships for determination of the thrust of RJE's	406
4. Preliminary gas dynamic analysis of RJE's	408
5. Characteristics of the RJE	413
Ch. XVI. Liquid Propellant Rocket Engines (LPRE)	425
1. Operation and basic characteristics of LPRE's	425
2. Efficiency of LPRE's	435
3. Fuel for LPRE's	441
4. Combustion chambers of LPRE's	450
5. Unstable operation of LPRE's	463
6. Temperature of fuel combustion in the chamber of LPRE's	466
7. Gas dynamic analysis of the nozzle of LPRE's	478
8. Characteristics of LPRE's	485
9. Cooling of LPRE's	493

Card 10/11